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OPTICAL METHOD OF DETERMINING TEMPERATURE BEHAVIOUR DURING REFINING IN A CONVERTER. [1961] 17p. 8 refs.
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DESCRIPTORS: *Steel, Processing, Temperature, Determination, Optics.

The measurement of the infra-red radiation of a heat through the converter mouth does not give a reliable temperature reading, when blowing with oxygen-enriched blast. In comparison for calibration of the measuring instrument on a black body, the temperature readings lie up to 100°C below the true bath temperature, measured by an immersion thermocouple. The (Metallurgy--Ferrous Metals, TT, v. 6, no. 9) (over)

61-18657

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II. Smit, H.

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Order from SLA \$1.10 62-10412

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DESCRIPTORS: *Monomolecular films, Films,
Surface tension, Permeability, Thrust, Water,
Evaporation.

(Physics--Molecular, TT, v. 7, no. 8)

62-10412

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Office of Technical Services

Change of Mechanical Properties of Rail Steels
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ISI 3255

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Reactions of Titanium Oxide-containing Lime-
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Order from SLA ml\$2. 40, ph\$3. 30 61-10844

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tent of up to 0.019% at different temperatures was in-
vestigated by tensile testing, and by damping and co-
ercive force determinations. Studies of aged speci-
mens were supplemented by recovery investigations
and the results were compared with those of quench
aging. The changes of strength characteristics and of
coercive force, as a function of the aging time and of
aging temperature, are characteristic of quench aging.
These changes suggest that carbide formation during
(Metallurgy--Ferrous Metals, TT, v. 5, no. 11) (over)

61-10844

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- I. Heller, W.
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Chemie, Vol 659, 1962, pp 49-63.
NTC 69-11353-07C

H. HELLMANN

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tr. by D. A. Sinclair. 1963, 19p. 24 refs. NRCC
Technical trans. 1066.
Order from NRCC \$1.00

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DESCRIPTORS: *Alkali metals, *Alkaline earth
metals, *Chemical bonds, Theory, *Lattices, Heat of
sublimation, Compressive properties.

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Order from SLA \$2.60

61-18687

Trans. of Angew[andte] Chem[ie] (West Germany) 1961,
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DESCRIPTORS: *Mutations, Genetics, Biochemical
genetics, *Enzymes, Synthesis, *Microorganisms.

Microorganisms offer especially suitable conditions for
the elucidation of biochemical synthetic chains. They
can be cultured quickly, require little space, are eas-
ily available in numerous species, and can often carry
out synthesis of which higher living organisms are not
capable. But above all, they can be transformed by
(Biological Sciences--Microbiology, TT, v. 7, no. 4)
(over)

61-18687

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H. Lingens, F.

191665

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DESCRIPTORS: *Color film, Pigments, Color Photog-
raphy Colors, Photographic chemicals.

It was shown in what way the so-called secondary
densities of the color negative pigment affect the repro-
duction of color in a color copy (color distortion by
whitening, blackening, loss in saturation or brightness,
and shifts in color tone). In one important example,
(Materials--Photographic, TT, v. 10, no. 2) (over)

62-14405

I. Hellmig, E.

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CHRON

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Metameric Colors and Colors With Zero
Tristimulus Value, by Richard Hellwig,
16 pp.

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Diagnosis and Therapy of Bone Tumors, by
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Vol LXXXVII, No 3, 1963, pp 71-85.
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Sci/Phys
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Spectrum, Zeeman Effect and Electron Levels of
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XXXXX K. H. Hellwege, S. Hafner, H. G. Kahle,
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Sci - Chemistry, Physics 34,882

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Linear Zeeman Effect in Crystals by K.H. Hellwege.
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